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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/673,937 10/24/00 BABA

T 00117

HM22/0524

EXAMINER

RONALD E GREIGG
UNIT ONE STATION SQUARE
1423 POWHATAN STREET
ALEXANDRIA VA 22314

MELLER, M

ART UNIT	PAPER NUMBER
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1651

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DATE MAILED:

05/24/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)
	09/673,937	BABA ET AL.
	Examiner	Art Unit
	Michael V. Meller	1651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- | | |
|---|--|
| 15) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 16) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 17) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 20) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

Applicant has checked in the column for not claiming priority and appears to intend to claim priority. A new declaration is needed which does not check the box, thus not creating any confusion.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is confusing since it does not recite clear and definite steps for the process. The process is hard to understand in the claim and the proviso at the end is jumbled in its language.

Claims 2-4 are confusing since their reference to the "content" or "valine content" is confusing when referring to "using valine alone among valine and proline". It would be clearer if applicant simply stated that in the method of claim 1, a specific amount of valine is used.

In claim 5, "buffer" is used twice. This is confusing. How can a "serum or buffer" be a buffer containing a soluble protein ?

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Segal et al. (Symposium on Pyridoxal Enzymes), Segal 1, in combination with Segal et al. (Biochemical and Biophysical Research Communications), Segal 2 in view of JP 08187095 and JP 60-224499.

Both references teach that alanine aminotransferase is stabilized with proline. The references teach that the amount of proline used is 0.1 M. They do not teach to stabilize aspartate aminotransferase with valine or proline.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use more than 0.1 M of proline since adjusting parameters to optimize the results of the invention is clearly within the purview of the skilled artisan and to adjust the amounts to the other concentrations claimed would also have been obvious since the skilled artisan uses routine experimentation to optimize the parameters in an effort to optimize the desired results of the claimed invention. To stabilize another enzyme such as aspartate aminotransferase would have been obvious since this enzyme is so closely related to alanine aminotransferase since they are both amino acid transferases. Further, to use the two amino acids together (valine and proline) would have been obvious since Segal 1, teaches that valine also has a high level of stability on alanine aminotransferase. To use valine alone is also obvious since Segal 1 uses valine alone to test the stability of the enzyme and yields a high result.

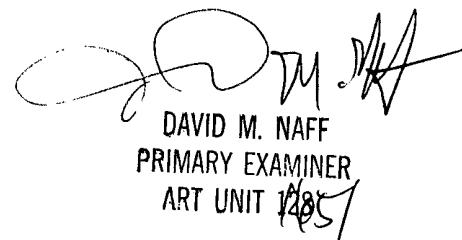
To use the specific serums or buffers would also have been obvious since the primary references (Segal 1 and 2) do use buffers and JP 08187095 and JP 60-224499 teach that serum albumin can be used to stabilize enzymes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Meller whose telephone number is 703-308-4230. The examiner can normally be reached on Monday thru Friday: 10:30am-7:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 703-308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0294 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

MVM
May 21, 2001



DAVID M. NAFF
PRIMARY EXAMINER
ART UNIT 1651